



## SEQUENCE LISTING

<110> Brooks, Peter  
Cheresh, David A.  
Friedlander, Martin

<120> METHODS AND COMPOSITIONS USEFUL FOR INHIBITION OF  
ALPHAvBETA5 MEDIATED ANGIOGENESIS

<130> MER0065S

<140> 09/194,552  
<141> 1999-03-23

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<151> 1997-05-30

<150> 60/018,773  
<151> 1996-05-31

<150> 60/015,869  
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<160> 43

<170> PatentIn Ver. 2.0

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<213> Artificial Sequence

C) <220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> BOC signifies the N-terminal protecting group  
butyloxycarbonyl; OMe signifies a C-terminal  
methyl ester; arginine in the first position.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> OMe signifies the C-terminal protecting group  
methyl ester.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> A prefix "D" in D-phe signifies that the  
phenylalanine in position 4 is a D-amino acid.

<400> 1  
Arg Gly Asp Phe Val  
1 5

<210> 2  
<211> 5  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> BOC signifies the N-terminal blocking group  
tertbutyloxycarbonyl.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> OH signifies a free C-terminal carboxylic acid.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> A prefix "D" in D-Phe signifies that the  
phenylalanine in position 4 is a D-amino acid.

<400> 2  
Arg Gly Asp Phe Val  
1 5

C  
<210> 3  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> H signifies a free N-terminal amine.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> OH signifies a free C-terminal carboxylic acid.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> A prefix "D" in D-phe at position 4, signifies  
that the phenylalanine is a D-amino acid.

<400> 3  
Arg Gly Asp Phe Val  
1 5

<210> 4  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Phe is a D-amino acid.

<400> 4  
Arg Gly Asp Phe Val  
1 5

<210> 5  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Phe is a D-amino acid.

C  
<400> 5  
Arg Ala Asp Phe Val  
1 5

<210> 6  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> Arg is a D-amino acid.

<400> 6  
Gly Arg Gly Asp Phe Val  
1 5

<210> 7  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Val is a D-amino acid.

<400> 7  
Arg Gly Asp Phe Val  
1 5

<210> 8  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<400> 8  
Tyr Thr Ala Glu Cys Lys Pro Gln Val Thr Arg Gly Asp Val Phe  
1 5 10 15

<210> 9  
<211> 6  
<212> PRT  
<213> Artificial Sequence

C  
<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> N-methylated valine.

<220>  
<221> PEPTIDE  
<222> (1)..(6)  
<223> Phe is a D-amino acid.

<400> 9  
Arg Gly Asp Phe Asn Val  
1 5

<210> 10  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide

<220>  
<221> PEPTIDE

<222> (1)..(5)  
<223> Phe is a D-amino acid.

<220>  
<221> PEPTIDE  
<222> (5)..(5)  
<223> N-methylated valine

<400> 10  
Arg Gly Glu Phe Val  
1 5

<210> 11  
<211> 222  
<212> PRT  
<213> Homo sapiens

<400> 11  
Lys Gly Ile Gln Glu Leu Tyr Gly Ala Ser Pro Asp Ile Asp Leu Gly  
1 5 10 15

Thr Gly Pro Thr Pro Thr Leu Gly Pro Val Thr Pro Glu Ile Cys Lys  
20 25 30

Gln Asp Ile Val Phe Asp Gly Ile Ala Gln Ile Arg Gly Glu Ile Phe  
35 40 45

C ( Phe Phe Lys Asp Arg Phe Ile Trp Arg Thr Val Thr Pro Arg Asp Lys  
50 55 60

Pro Met Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Glu Leu Pro Glu  
65 70 75 80

Lys Ile Asp Ala Val Tyr Glu Ala Pro Gln Glu Glu Lys Ala Val Phe  
85 90 95

Phe Ala Gly Asn Glu Tyr Trp Ile Tyr Ser Ala Ser Thr Leu Glu Arg  
100 105 110

Gly Tyr Pro Lys Pro Leu Thr Ser Leu Gly Leu Pro Pro Asp Val Gln  
115 120 125

Arg Val Asp Ala Ala Phe Asn Trp Ser Lys Asn Lys Lys Thr Tyr Ile  
130 135 140

Phe Ala Gly Asp Lys Phe Trp Arg Tyr Asn Glu Val Lys Lys Lys Met  
145 150 155 160

Asp Pro Gly Phe Pro Lys Leu Ile Ala Asp Ala Trp Asn Ala Ile Pro  
165 170 175

Asp Asn Leu Asp Ala Val Val Asp Leu Gln Gly Gly His Ser Tyr  
180 185 190

Phe Phe Lys Gly Ala Tyr Tyr Leu Lys Leu Glu Asn Gln Ser Leu Lys  
195 200 205

Ser Val Lys Phe Gly Ser Ile Lys Ser Asp Trp Leu Gly Cys  
210 215 220

<210> 12  
<211> 193  
<212> PRT  
<213> Homo sapiens

<400> 12  
Ile Cys Lys Gln Asp Ile Val Phe Asp Gly Ile Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Lys Asp Arg Phe Ile Trp Arg Thr Val Thr Pro  
20 25 30

Arg Asp Lys Pro Met Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Glu  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ala Pro Gln Glu Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp Ile Tyr Ser Ala Ser Thr  
65 70 75 80

Leu Glu Arg Gly Tyr Pro Lys Pro Leu Thr Ser Leu Gly Leu Pro Pro  
85 90 95

Asp Val Gln Arg Val Asp Ala Ala Phe Asn Trp Ser Lys Asn Lys Lys  
100 105 110

Thr Tyr Ile Phe Ala Gly Asp Lys Phe Trp Arg Tyr Asn Glu Val Lys  
115 120 125

Lys Lys Met Asp Pro Gly Phe Pro Lys Leu Ile Ala Asp Ala Trp Asn  
130 135 140

Ala Ile Pro Asp Asn Leu Asp Ala Val Val Asp Leu Gln Gly Gly  
145 150 155 160

His Ser Tyr Phe Phe Lys Gly Ala Tyr Tyr Leu Lys Leu Glu Asn Gln  
165 170 175

Ser Leu Lys Ser Val Lys Phe Gly Ser Ile Lys Ser Asp Trp Leu Gly  
180 185 190

Cys

<210> 13  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 13  
Ile Cys Lys Gln Asp Ile Val Phe Asp Gly Ile Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Lys Asp Arg Phe Ile Trp Arg Thr Val Thr Pro  
20 25 30

Arg Asp Lys Pro Met Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Glu  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ala Pro Gln Glu Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp  
65 70

<210> 14

<211> 108

<212> PRT

<213> Homo sapiens

<400> 14

Ile Cys Lys Gln Asp Ile Val Phe Asp Gly Ile Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Lys Asp Arg Phe Ile Trp Arg Thr Val Thr Pro  
20 25 30

Arg Asp Lys Pro Met Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Glu  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ala Pro Gln Glu Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp Ile Tyr Ser Ala Ser Thr  
65 70 75 80

Leu Glu Arg Gly Tyr Pro Lys Pro Leu Thr Ser Leu Gly Leu Pro Pro  
85 90 95

Asp Val Gln Arg Val Asp Ala Ala Phe Asn Trp Ser  
100 105

<210> 15

<211> 122

<212> PRT

<213> Homo sapiens

<400> 15

Glu Tyr Trp Ile Tyr Ser Ala Ser Thr Leu Glu Arg Gly Tyr Pro Lys  
1 5 10 15

Pro Leu Thr Ser Leu Gly Leu Pro Pro Asp Val Gln Arg Val Asp Ala  
20 25 30

Ala Phe Asn Trp Ser Lys Asn Lys Lys Thr Tyr Ile Phe Ala Gly Asp  
35 40 45

Lys Phe Trp Arg Tyr Asn Glu Val Lys Lys Lys Met Asp Pro Gly Phe  
50 55 60

Pro Lys Leu Ile Ala Asp Ala Trp Asn Ala Ile Pro Asp Asn Leu Asp  
65 70 75 80

Ala Val Val Asp Leu Gln Gly Gly His Ser Tyr Phe Phe Lys Gly  
85 90 95

Ala Tyr Tyr Leu Lys Leu Glu Asn Gln Ser Leu Lys Ser Val Lys Phe  
100 105 110

Gly Ser Ile Lys Ser Asp Trp Leu Gly Cys  
115 120

<210> 16

<211> 89

<212> PRT

<213> Homo sapiens

<400> 16

Phe Asn Trp Ser Lys Asn Lys Lys Thr Tyr Ile Phe Ala Gly Asp Lys  
1 5 10 15

Phe Trp Arg Tyr Asn Glu Val Lys Lys Lys Met Asp Pro Gly Phe Pro  
20 25 30

Lys Leu Ile Ala Asp Ala Trp Asn Ala Ile Pro Asp Asn Leu Asp Ala  
35 40 45

Val Val Asp Leu Gln Gly Gly His Ser Tyr Phe Phe Lys Gly Ala  
50 55 60

Tyr Tyr Leu Lys Leu Glu Asn Gln Ser Leu Lys Ser Val Lys Phe Gly  
65 70 75 80

Ser Ile Lys Ser Asp Trp Leu Gly Cys  
85

<210> 17

<211> 228

<212> PRT

<213> Gallus gallus

<400> 17

Lys Gly Ile Gln Glu Leu Tyr Glu Val Ser Pro Asp Val Glu Pro Gly  
1 5 10 15

Pro Gly Pro Gly Pro Gly Pro Gly Pro Arg Pro Thr Leu Gly Pro Val  
20 25 30

Thr Pro Glu Leu Cys Lys His Asp Ile Val Phe Asp Gly Val Ala Gln  
35 40 45

Ile Arg Gly Glu Ile Phe Phe Lys Asp Arg Phe Met Trp Arg Thr  
50 55 60

Val Asn Pro Arg Gly Lys Pro Thr Gly Pro Leu Leu Val Ala Thr Phe  
65 70 75 80

Trp Pro Asp Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ser Pro Gln  
85 90 95

Asp Glu Lys Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp Val Tyr Thr  
100 105 110

Ala Ser Asn Leu Asp Arg Gly Tyr Pro Lys Lys Leu Thr Ser Leu Gly  
115 120 125

Leu Pro Pro Asp Val Gln Arg Ile Asp Ala Ala Phe Asn Trp Gly Arg  
130 135 140

Asn Lys Lys Thr Tyr Ile Phe Ser Gly Asp Arg Tyr Trp Lys Tyr Asn  
145 150 155 160

Glu Glu Lys Lys Lys Met Glu Leu Ala Thr Pro Lys Phe Ile Ala Asp  
165 170 175

Ser Trp Asn Gly Val Pro Asp Asn Leu Asp Ala Val Leu Gly Leu Thr  
180 185 190

Asp Ser Gly Tyr Thr Tyr Phe Phe Lys Asp Gln Tyr Tyr Leu Gln Met  
195 200 205

Glu Asp Lys Ser Leu Lys Ile Val Lys Ile Gly Lys Ile Ser Ser Asp  
210 215 220

Trp Leu Gly Cys  
225

C  
<210> 18  
<211> 193  
<212> PRT  
<213> Gallus gallus

<400> 18  
Leu Cys Lys His Asp Ile Val Phe Asp Gly Val Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Phe Lys Asp Arg Phe Met Trp Arg Thr Val Asn Pro  
20 25 30

Arg Gly Lys Pro Thr Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Asp  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ser Pro Gln Asp Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp Val Tyr Thr Ala Ser Asn  
65 70 75 80

Leu Asp Arg Gly Tyr Pro Lys Lys Leu Thr Ser Leu Gly Leu Pro Pro  
85 90 95

Asp Val Gln Arg Ile Asp Ala Ala Phe Asn Trp Gly Arg Asn Lys Lys  
100 105 110

Thr Tyr Ile Phe Ser Gly Asp Arg Tyr Trp Lys Tyr Asn Glu Glu Lys  
115 120 125

Lys Lys Met Glu Leu Ala Thr Pro Lys Phe Ile Ala Asp Ser Trp Asn  
130 135 140

Gly Val Pro Asp Asn Leu Asp Ala Val Leu Gly Leu Thr Asp Ser Gly  
145 150 155 160

Tyr Thr Tyr Phe Phe Lys Asp Gln Tyr Tyr Leu Gln Met Glu Asp Lys  
165 170 175

Ser Leu Lys Ile Val Lys Ile Gly Lys Ile Ser Ser Asp Trp Leu Gly  
180 185 190

Cys

<210> 19  
<211> 74  
<212> PRT  
<213> Gallus gallus

<400> 19  
Leu Cys Lys His Asp Ile Val Phe Asp Gly Val Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Phe Lys Asp Arg Phe Met Trp Arg Thr Val Asn Pro  
20 25 30

Arg Gly Lys Pro Thr Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Asp  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ser Pro Gln Asp Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp  
65 70

<210> 20  
<211> 108  
<212> PRT  
<213> Gallus gallus

<400> 20  
Leu Cys Lys His Asp Ile Val Phe Asp Gly Val Ala Gln Ile Arg Gly  
1 5 10 15

Glu Ile Phe Phe Phe Lys Asp Arg Phe Met Trp Arg Thr Val Asn Pro  
20 25 30

Arg Gly Lys Pro Thr Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Asp  
35 40 45

Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu Ser Pro Gln Asp Glu Lys  
50 55 60

Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp Val Tyr Thr Ala Ser Asn  
65 70 75 80

Leu Asp Arg Gly Tyr Pro Lys Lys Leu Thr Ser Leu Gly Leu Pro Pro  
85 90 95

Asp Val Gln Arg Ile Asp Ala Ala Phe Asn Trp Gly  
100 105

<210> 21

<211> 122

<212> PRT

<213> Gallus gallus

<400> 21

Glu Tyr Trp Val Tyr Thr Ala Ser Asn Leu Asp Arg Gly Tyr Pro Lys  
1 5 10 15

Lys Leu Thr Ser Leu Gly Leu Pro Pro Asp Val Gln Arg Ile Asp Ala  
20 25 30

Ala Phe Asn Trp Gly Arg Asn Lys Lys Thr Tyr Ile Phe Ser Gly Asp  
35 40 45

Arg Tyr Trp Lys Tyr Asn Glu Glu Lys Lys Met Glu Leu Ala Thr  
50 55 60

Pro Lys Phe Ile Ala Asp Ser Trp Asn Gly Val Pro Asp Asn Leu Asp  
65 70 75 80

Ala Val Leu Gly Leu Thr Asp Ser Gly Tyr Thr Tyr Phe Phe Lys Asp  
85 90 95

Gln Tyr Tyr Leu Gln Met Glu Asp Lys Ser Leu Lys Ile Val Lys Ile  
100 105 110

Gly Lys Ile Ser Ser Asp Trp Leu Gly Cys  
115 120

<210> 22

<211> 89

<212> PRT

<213> Gallus gallus

<400> 22

Phe Asn Trp Gly Arg Asn Lys Lys Thr Tyr Ile Phe Ser Gly Asp Arg  
1 5 10 15

Tyr Trp Lys Tyr Asn Glu Glu Lys Lys Met Glu Leu Ala Thr Pro  
20 25 30

Lys Phe Ile Ala Asp Ser Trp Asn Gly Val Pro Asp Asn Leu Asp Ala  
35 40 45

Val Leu Gly Leu Thr Asp Ser Gly Tyr Thr Tyr Phe Phe Lys Asp Gln  
50 55 60

Tyr Tyr Leu Gln Met Glu Asp Lys Ser Leu Lys Ile Val Lys Ile Gly  
65 70 75 80

Lys Ile Ser Ser Asp Trp Leu Gly Cys  
85

<210> 23

<211> 2123

<212> DNA

<213> Gallus gallus

<220>

<221> CDS

<222> (132)..(2123)

<400> 23

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actgtgcagc caaagtaact gacagtcagt cagagaaatc ttttaaagag gattgcaaaa 120

atataggcag a atg aag act cac agt gtt ttt ggc ttc ttt aaa gta 170  
Met Lys Thr His Ser Val Phe Gly Phe Phe Phe Lys Val  
1 5 10

cta tta atc caa gtg tat ctt aac aaa act tta gct gca ccg tca 218  
Leu Leu Ile Gln Val Tyr Leu Phe Asn Lys Thr Leu Ala Ala Pro Ser  
15 20 25

cca atc att aag ttc cct gga gac agc act cca aaa aca gac aaa gag 266  
Pro Ile Ile Lys Phe Pro Gly Asp Ser Thr Pro Lys Thr Asp Lys Glu  
30 35 40 45

cta gca gtg caa tac ctg aat aaa tat tat gga tgc cca aaa gac aat 314  
Leu Ala Val Gln Tyr Leu Asn Lys Tyr Gly Cys Pro Lys Asp Asn  
50 55 60

tgc aac tta ttt gta ttg aaa gat act ttg aag aaa atg cag aaa ttt 362  
Cys Asn Leu Phe Val Leu Lys Asp Thr Leu Lys Lys Met Gln Lys Phe  
65 70 75

ttt ggg ctg cct gaa aca gga gat ttg gat caa aac aca att gag aca 410  
Phe Gly Leu Pro Glu Thr Gly Asp Leu Asp Gln Asn Thr Ile Glu Thr  
80 85 90

atg aag aaa ccc cgc tgt ggt aac ccc gat gtg gcc aat tac aac ttc 458  
Met Lys Lys Pro Arg Cys Gly Asn Pro Asp Val Ala Asn Tyr Asn Phe  
95 100 105

ttt cca aga aag cca aaa tgg gaa aag aat cat ata aca tac agg att 506  
Phe Pro Arg Lys Pro Lys Trp Glu Lys Asn His Ile Thr Tyr Arg Ile  
110 115 120 125

ata ggc tat acc ccg gat ttg gat cct gag aca gta gat gat gcc ttt 554  
Ile Gly Tyr Thr Pro Asp Leu Asp Pro Glu Thr Val Asp Asp Ala Phe  
130 135 140

gcc cga gcc ttt aaa gtc tgg agt gat gtc acg cca ctg aga ttt aac Ala Arg Ala Phe Lys Val Trp Ser Asp Val Thr Pro Leu Arg Phe Asn 145 150 155	602
cga ata aat gat gga gag gca gac att atg att aat ttt ggc cga tgg Arg Ile Asn Asp Gly Glu Ala Asp Ile Met Ile Asn Phe Gly Arg Trp 160 165 170	650
gaa cat ggt gat ggc tat cca ttt gat ggc aaa gat ggt ctc ctg gct Glu His Gly Asp Gly Tyr Pro Phe Asp Gly Lys Asp Gly Leu Leu Ala 175 180 185	698
cac gcc ttt gca ccg ggg cca gga att gga gga gac tcc cat ttt gat His Ala Phe Ala Pro Gly Pro Gly Ile Gly Asp Ser His Phe Asp 190 195 200 205	746
gat gat gaa ctg tgg act ctt gga gaa ggg caa gtg gtt aga gta aag Asp Asp Glu Leu Trp Thr Leu Gly Glu Gly Gln Val Val Arg Val Lys 210 215 220	794
tat gga aat gca gat ggt gaa tac tgc aaa ttt ccc ttc tgg ttc aat Tyr Gly Asn Ala Asp Gly Glu Tyr Cys Lys Phe Pro Phe Trp Phe Asn 225 230 235	842
ggt aag gaa tac aac agc tgc aca gat gca gga cgt aat gat gga ttc Gly Lys Glu Tyr Asn Ser Cys Thr Asp Ala Gly Arg Asn Asp Gly Phe 240 245 250	890
ctc tgg tgt tcc aca acc aaa gac ttt gat gca gat ggc aaa tat ggc Leu Trp Cys Ser Thr Thr Lys Asp Phe Asp Ala Asp Gly Lys Tyr Gly 255 260 265	938
ttt tgt ccc cat gag tca ctt ttt aca atg ggt ggc aat ggt gat gga Phe Cys Pro His Glu Ser Leu Phe Thr Met Gly Gly Asn Gly Asp Gly 270 275 280 285	986
cag ccc tgc aag ttt ccc ttt aaa ttt caa ggc cag tcc tat gac cag Gln Pro Cys Lys Phe Pro Phe Lys Phe Gln Gly Gln Ser Tyr Asp Gln 290 295 300	1034
tgt aca aca gaa ggc agg aca gat gga tac aga tgg tgt gga acc act Cys Thr Thr Glu Gly Arg Thr Asp Gly Tyr Arg Trp Cys Gly Thr Thr 305 310 315	1082
gaa gac tat gat aga gat aag aaa tac gga ttc tgc cca gaa act gcc Glu Asp Tyr Asp Arg Asp Lys Lys Tyr Gly Phe Cys Pro Glu Thr Ala 320 325 330	1130
atg tca aca gtt ggt gga aat tca gaa gga gct cct tgt gta ttc ccc Met Ser Thr Val Gly Gly Asn Ser Glu Gly Ala Pro Cys Val Phe Pro 335 340 345	1178
ttc atc ttc ctt ggg aat aaa tac gac tcc tgt aca agt gca ggt cgc Phe Ile Phe Leu Gly Asn Lys Tyr Asp Ser Cys Thr Ser Ala Gly Arg 350 355 360 365	1226
aat gat ggc aag ctg tgg tgt gct tct acc agc agc tat gat gat gac Asn Asp Gly Lys Leu Trp Cys Ala Ser Thr Ser Ser Tyr Asp Asp Asp 370 375 380	1274

C /

cgc aag tgg ggc ttt tgt cca gat caa gga tac agt ctc ttc ttg gtt		1322
Arg Lys Trp Gly Phe Cys Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val		
385	390	395
gct gcc cac gaa ttt ggc cat gcg atg gga tta gag cac tcc gag gac		1370
Ala Ala His Glu Phe Gly His Ala Met Gly Leu Glu His Ser Glu Asp		
400	405	410
cca gga gct ctc atg gcc ccg atc tac acc tac acc aag aac ttc cgc		1418
Pro Gly Ala Leu Met Ala Pro Ile Tyr Thr Tyr Thr Lys Asn Phe Arg		
415	420	425
ctt tct cag gat gac att aag ggg att cag gag cta tat gaa gta tca		1466
Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Glu Leu Tyr Glu Val Ser		
430	435	440
445		
cct gat gtg gaa cct gga cca ggg cca gga cca ggg cca gga cca cgt		1514
Pro Asp Val Glu Pro Gly Pro Gly Pro Gly Pro Gly Pro Arg		
450	455	460
cct acc ctt gga cct gtc act cca gag ctc tgc aag cac gac att gta		1562
Pro Thr Leu Gly Pro Val Thr Pro Glu Leu Cys Lys His Asp Ile Val		
465	470	475
ttt gat gga gtt gca caa att aga gga gaa ata ttt ttc ttc aaa gac		1610
Phe Asp Gly Val Ala Gln Ile Arg Gly Glu Ile Phe Phe Phe Lys Asp		
480	485	490
aga ttc atg tgg agg act gta aac cct cga gga aaa ccc aca ggt cct		1658
Arg Phe Met Trp Arg Thr Val Asn Pro Arg Gly Lys Pro Thr Gly Pro		
495	500	505
ctt ctc gtt gct aca ttc tgg cct gat ctg cca gag aaa atc gat gct		1706
Leu Leu Val Ala Thr Phe Trp Pro Asp Leu Pro Glu Lys Ile Asp Ala		
510	515	520
525		
gtc tac gag tcc cct cag gat gag aag gct gta ttt ttt gca gga aat		1754
Val Tyr Glu Ser Pro Gln Asp Glu Lys Ala Val Phe Phe Ala Gly Asn		
530	535	540
gag tac tgg gtt tat aca gcc agc aac ctg gat agg ggc tat cca aag		1802
Glu Tyr Trp Val Tyr Thr Ala Ser Asn Leu Asp Arg Gly Tyr Pro Lys		
545	550	555
aaa ctc acc agc ctg gga cta ccc cct gat gtg caa cgc att gat gca		1850
Lys Leu Thr Ser Leu Gly Leu Pro Pro Asp Val Gln Arg Ile Asp Ala		
560	565	570
gcc ttc aac tgg ggc aga aac aag aca tat att ttc tct gga gac		1898
Ala Phe Asn Trp Gly Arg Asn Lys Lys Thr Tyr Ile Phe Ser Gly Asp		
575	580	585
aga tac tgg aag tac aat gaa gaa aag aaa aaa atg gag ctt gca acc		1946
Arg Tyr Trp Lys Tyr Asn Glu Glu Lys Lys Lys Met Glu Leu Ala Thr		
590	595	600
605		
cca aaa ttc att gcg gat tct tgg aat gga gtt cca gat aac ctc gat		1994
Pro Lys Phe Ile Ala Asp Ser Trp Asn Gly Val Pro Asp Asn Leu Asp		
610	615	620

gct gtc ctg ggt ctt act gac agc ggg tac acc tat ttt ttc aaa gac Ala Val Leu Gly Leu Thr Asp Ser Gly Tyr Thr Tyr Phe Phe Lys Asp 625	630	635	2042
cag tac tat cta caa atg gaa gac aag agt ttg aag att gtt aaa att Gln Tyr Tyr Leu Gln Met Glu Asp Lys Ser Leu Lys Ile Val Lys Ile 640	645	650	2090
ggc aag ata agt tct gac tgg ttg ggt tgc tga Gly Lys Ile Ser Ser Asp Trp Leu Gly Cys 655	660		2123
<210> 24			
<211> 663			
<212> PRT			
<213> Gallus gallus			
<400> 24			
Met Lys Thr His Ser Val Phe Gly Phe Phe Lys Val Leu Leu Ile 1	5	10	15
Gln Val Tyr Leu Phe Asn Lys Thr Leu Ala Ala Pro Ser Pro Ile Ile 20	25	30	
Lys Phe Pro Gly Asp Ser Thr Pro Lys Thr Asp Lys Glu Leu Ala Val 35	40	45	
Gln Tyr Leu Asn Lys Tyr Tyr Gly Cys Pro Lys Asp Asn Cys Asn Leu 50	55	60	
Phe Val Leu Lys Asp Thr Leu Lys Lys Met Gln Lys Phe Phe Gly Leu 65	70	75	80
Pro Glu Thr Gly Asp Leu Asp Gln Asn Thr Ile Glu Thr Met Lys Lys 85	90	95	
Pro Arg Cys Gly Asn Pro Asp Val Ala Asn Tyr Asn Phe Phe Pro Arg 100	105	110	
Lys Pro Lys Trp Glu Lys Asn His Ile Thr Tyr Arg Ile Ile Gly Tyr 115	120	125	
Thr Pro Asp Leu Asp Pro Glu Thr Val Asp Asp Ala Phe Ala Arg Ala 130	135	140	
Phe Lys Val Trp Ser Asp Val Thr Pro Leu Arg Phe Asn Arg Ile Asn 145	150	155	160
Asp Gly Glu Ala Asp Ile Met Ile Asn Phe Gly Arg Trp Glu His Gly 165	170	175	
Asp Gly Tyr Pro Phe Asp Gly Lys Asp Gly Leu Leu Ala His Ala Phe 180	185	190	
Ala Pro Gly Pro Gly Ile Gly Gly Asp Ser His Phe Asp Asp Asp Glu 195	200	205	

Leu Trp Thr Leu Gly Glu Gly Gln Val Val Arg Val Lys Tyr Gly Asn  
210 215 220

Ala Asp Gly Glu Tyr Cys Lys Phe Pro Phe Trp Phe Asn Gly Lys Glu  
225 230 235 240

Tyr Asn Ser Cys Thr Asp Ala Gly Arg Asn Asp Gly Phe Leu Trp Cys  
245 250 255

Ser Thr Thr Lys Asp Phe Asp Ala Asp Gly Lys Tyr Gly Phe Cys Pro  
260 265 270

His Glu Ser Leu Phe Thr Met Gly Gly Asn Gly Asp Gly Gln Pro Cys  
275 280 285

Lys Phe Pro Phe Lys Phe Gln Gly Gln Ser Tyr Asp Gln Cys Thr Thr  
290 295 300

Glu Gly Arg Thr Asp Gly Tyr Arg Trp Cys Gly Thr Thr Glu Asp Tyr  
305 310 315 320

Asp Arg Asp Lys Lys Tyr Gly Phe Cys Pro Glu Thr Ala Met Ser Thr  
325 330 335

Val Gly Gly Asn Ser Glu Gly Ala Pro Cys Val Phe Pro Phe Ile Phe  
340 345 350

Leu Gly Asn Lys Tyr Asp Ser Cys Thr Ser Ala Gly Arg Asn Asp Gly  
355 360 365

Lys Leu Trp Cys Ala Ser Thr Ser Ser Tyr Asp Asp Asp Arg Lys Trp  
370 375 380

Gly Phe Cys Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala His  
385 390 395 400

Glu Phe Gly His Ala Met Gly Leu Glu His Ser Glu Asp Pro Gly Ala  
405 410 415

Leu Met Ala Pro Ile Tyr Thr Tyr Thr Lys Asn Phe Arg Leu Ser Gln  
420 425 430

Asp Asp Ile Lys Gly Ile Gln Glu Leu Tyr Glu Val Ser Pro Asp Val  
435 440 445

Glu Pro Gly Pro Gly Pro Gly Pro Gly Pro Arg Pro Thr Leu  
450 455 460

Gly Pro Val Thr Pro Glu Leu Cys Lys His Asp Ile Val Phe Asp Gly  
465 470 475 480

Val Ala Gln Ile Arg Gly Glu Ile Phe Phe Phe Lys Asp Arg Phe Met  
485 490 495

Trp Arg Thr Val Asn Pro Arg Gly Lys Pro Thr Gly Pro Leu Leu Val  
500 505 510

Ala Thr Phe Trp Pro Asp Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu  
515 520 525

Ser Pro Gln Asp Glu Lys Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp  
 530 535 540  
 Val Tyr Thr Ala Ser Asn Leu Asp Arg Gly Tyr Pro Lys Lys Leu Thr  
 545 550 555 560  
 Ser Leu Gly Leu Pro Pro Asp Val Gln Arg Ile Asp Ala Ala Phe Asn  
 565 570 575  
 Trp Gly Arg Asn Lys Lys Thr Tyr Ile Phe Ser Gly Asp Arg Tyr Trp  
 580 585 590  
 Lys Tyr Asn Glu Glu Lys Lys Met Glu Leu Ala Thr Pro Lys Phe  
 595 600 605  
 Ile Ala Asp Ser Trp Asn Gly Val Pro Asp Asn Leu Asp Ala Val Leu  
 610 615 620  
 Gly Leu Thr Asp Ser Gly Tyr Thr Tyr Phe Phe Lys Asp Gln Tyr Tyr  
 625 630 635 640  
 Leu Gln Met Glu Asp Lys Ser Leu Lys Ile Val Lys Ile Gly Lys Ile  
 645 650 655  
 Ser Ser Asp Trp Leu Gly Cys  
 660

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 <211> 631  
 <212> PRT  
 <213> Homo sapiens  
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 1 5 10 15  
 Asp Lys Glu Leu Ala Val Gln Tyr Leu Asn Thr Phe Tyr Gly Cys Pro  
 20 25 30  
 Lys Glu Ser Cys Asn Leu Phe Val Leu Lys Asp Thr Leu Lys Lys Met  
 35 40 45  
 Gln Lys Phe Phe Gly Leu Pro Gln Thr Gly Asp Leu Asp Gln Asn Thr  
 50 55 60  
 Ile Glu Thr Met Arg Lys Pro Arg Cys Gly Asn Pro Asp Val Ala Asn  
 65 70 75 80  
 Tyr Asn Phe Phe Pro Arg Lys Pro Lys Trp Asp Lys Asn Gln Ile Thr  
 85 90 95  
 Tyr Arg Ile Ile Gly Tyr Thr Pro Asp Leu Asp Pro Glu Thr Val Asp  
 100 105 110  
 Asp Ala Phe Ala Arg Ala Phe Gln Val Trp Ser Asp Val Thr Pro Leu  
 115 120 125

Arg Phe Ser Arg Ile His Asp Gly Glu Ala Asp Ile Met Ile Asn Phe  
 130 135 140

Gly Arg Trp Glu His Gly Asp Gly Tyr Pro Phe Asp Gly Lys Asp Gly  
 145 150 155 160

Leu Leu Ala His Ala Phe Ala Pro Gly Thr Gly Val Gly Gly Asp Ser  
 165 170 175

His Phe Asp Asp Asp Glu Leu Trp Thr Leu Gly Glu Gly Gln Val Val  
 180 185 190

Arg Val Lys Tyr Gly Asn Ala Asp Gly Glu Tyr Cys Lys Phe Pro Phe  
 195 200 205

Leu Phe Asn Gly Lys Glu Tyr Asn Ser Cys Thr Asp Thr Gly Arg Ser  
 210 215 220

Asp Gly Phe Leu Trp Cys Ser Thr Thr Tyr Asn Phe Glu Lys Asp Gly  
 225 230 235 240

Lys Tyr Gly Phe Cys Pro His Glu Ala Leu Phe Thr Met Gly Gly Asn  
 245 250 255

Ala Glu Gly Gln Pro Cys Lys Phe Pro Phe Arg Phe Gln Gly Thr Ser  
 260 265 270

Tyr Asp Ser Cys Thr Thr Glu Gly Arg Thr Asp Gly Tyr Arg Trp Cys  
 275 280 285

Gly Thr Thr Glu Asp Tyr Asp Arg Asp Lys Lys Tyr Gly Phe Cys Pro  
 290 295 300

Glu Thr Ala Met Ser Thr Val Gly Gly Asn Ser Glu Gly Ala Pro Cys  
 305 310 315 320

Val Phe Pro Phe Thr Phe Leu Gly Asn Lys Tyr Glu Ser Cys Thr Ser  
 325 330 335

Ala Gly Arg Ser Asp Gly Lys Met Trp Cys Ala Thr Thr Ala Asn Tyr  
 340 345 350

Asp Asp Asp Arg Lys Trp Gly Phe Cys Pro Asp Gln Gly Tyr Ser Leu  
 355 360 365

Phe Leu Val Ala Ala His Glu Phe Gly His Ala Met Gly Leu Glu His  
 370 375 380

Ser Gln Asp Pro Gly Ala Leu Met Ala Pro Ile Tyr Thr Tyr Thr Lys  
 385 390 395 400

Asn Phe Arg Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Glu Leu Tyr  
 405 410 415

Gly Ala Ser Pro Asp Ile Asp Leu Gly Thr Gly Pro Thr Pro Thr Leu  
 420 425 430

Gly Pro Val Thr Pro Glu Ile Cys Lys Gln Asp Ile Val Phe Asp Gly  
 435 440 445

Ile Ala Gln Ile Arg Gly Glu Ile Phe Phe Phe Lys Asp Arg Phe Ile  
450 455 460

Trp Arg Thr Val Thr Pro Arg Asp Lys Pro Met Gly Pro Leu Leu Val  
465 470 475 480

Ala Thr Phe Trp Pro Glu Leu Pro Glu Lys Ile Asp Ala Val Tyr Glu  
485 490 495

Ala Pro Gln Glu Glu Lys Ala Val Phe Phe Ala Gly Asn Glu Tyr Trp  
500 505 510

Ile Tyr Ser Ala Ser Thr Leu Glu Arg Gly Tyr Pro Lys Pro Leu Thr  
515 520 525

Ser Leu Gly Leu Pro Pro Asp Val Gln Arg Val Asp Ala Ala Phe Asn  
530 535 540

Trp Ser Lys Asn Lys Lys Thr Tyr Ile Phe Ala Gly Asp Lys Phe Trp  
545 550 555 560

Arg Tyr Asn Glu Val Lys Lys Lys Met Asp Pro Gly Phe Pro Lys Leu  
565 570 575

Ile Ala Asp Ala Trp Asn Ala Ile Pro Asp Asn Leu Asp Ala Val Val  
580 585 590

Asp Leu Gln Gly Gly His Ser Tyr Phe Phe Lys Gly Ala Tyr Tyr  
595 600 605

Leu Lys Leu Glu Asn Gln Ser Leu Lys Ser Val Lys Phe Gly Ser Ile  
610 615 620

Lys Ser Asp Trp Leu Gly Cys  
625 630

C (

<210> 26  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 26  
attgaattct tctacagttc a

21

<210> 27  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 27  
atgggatcca ctgcaaattt c 21

<210> 28  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 28  
gccggatcca tgaccagtgt a 21

<210> 29  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 29  
gtgggatccc tgaagactat g 21

C  
<210> 30  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 30  
aggggatcct taaggggatt c 21

<210> 31  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 31  
ctcggatcct ctgcaagcac g 21

<210> 32  
<211> 21  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 32  
ctcggatcct ctgcaagcac g 21

<210> 33  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 33  
gcaggatccg agtgctgggt ttatac 26

<210> 34  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 34  
gcagaattca actgtggcag aaacaag 27

C  
<210> 35  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 35  
gtagaattcc agcactcatt tcctgc 26

<210> 36  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 36

tctgaattct gccacagttg aagg

24

<210> 37  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 37  
attgaattct tctacagttc a

21

<210> 38  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 38  
gatgaattct actgcaagtt

20

<210> 39  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 39  
cactgaattc atctgcaaac a

21

<210> 40  
<211> 429  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Human MMP-2  
fusion protein

<400> 40  
Tyr Cys Lys Phe Pro Phe Leu Phe Asn Gly Lys Glu Tyr Asn Ser Cys  
1 5 10 15

Thr Asp Thr Gly Arg Ser Asp Gly Phe Leu Trp Cys Ser Thr Thr Tyr  
20 25 30

Asn Phe Glu Lys Asp Gly Lys Tyr Gly Phe Cys Pro His Glu Ala Leu  
     35                          40                          45  
  
 Phe Thr Met Gly Gly Asn Ala Glu Gly Gln Pro Cys Lys Phe Pro Phe  
     50                          55                          60  
  
 Arg Phe Gln Gly Thr Ser Tyr Asp Ser Cys Thr Thr Glu Gly Arg Thr  
     65                          70                          75                          80  
  
 Asp Gly Tyr Arg Trp Cys Gly Thr Thr Glu Asp Tyr Asp Arg Asp Lys  
     85                          90                          95  
  
 Lys Tyr Gly Phe Cys Pro Glu Thr Ala Met Ser Thr Val Gly Gly Asn  
     100                         105                         110  
  
 Ser Glu Gly Ala Pro Cys Val Phe Pro Phe Thr Phe Leu Gly Asn Lys  
     115                         120                         125  
  
 Tyr Glu Ser Cys Thr Ser Ala Gly Arg Ser Asp Gly Lys Met Trp Cys  
     130                         135                         140  
  
 Ala Thr Thr Ala Asn Tyr Asp Asp Arg Lys Trp Gly Phe Cys Pro  
     145                         150                         155                          160  
  
 Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala His Glu Phe Gly His  
     165                         170                         175  
  
 Ala Met Gly Leu Glu His Ser Gln Asp Pro Gly Ala Leu Met Ala Pro  
     180                         185                         190  
  
 Ile Tyr Thr Tyr Thr Lys Asn Phe Arg Leu Ser Gln Asp Asp Ile Lys  
     195                         200                         205  
  
 Gly Ile Gln Glu Leu Tyr Gly Ala Ser Pro Asp Ile Asp Leu Gly Thr  
     210                         215                         220  
  
 Gly Pro Thr Pro Thr Leu Gly Pro Val Thr Pro Glu Ile Cys Lys Gln  
     225                         230                         235                         240  
  
 Asp Ile Val Phe Asp Gly Ile Ala Gln Ile Arg Gly Glu Ile Phe Phe  
     245                         250                         255  
  
 Phe Lys Asp Arg Phe Ile Trp Arg Thr Val Thr Pro Arg Asp Lys Pro  
     260                         265                         270  
  
  
 Met Gly Pro Leu Leu Val Ala Thr Phe Trp Pro Glu Leu Pro Glu Lys  
     275                         280                         285  
  
 Ile Asp Ala Val Tyr Glu Ala Pro Gln Glu Glu Lys Ala Val Phe Phe  
     290                         295                         300  
  
 Ala Gly Asn Glu Tyr Trp Ile Tyr Ser Ala Ser Thr Leu Glu Arg Gly  
     305                         310                         315                         320  
  
 Tyr Pro Lys Pro Leu Thr Ser Leu Gly Leu Pro Pro Asp Val Gln Arg  
     325                         330                         335

Val Asp Ala Ala Phe Asn Trp Ser Lys Asn Lys Lys Thr Tyr Ile Phe  
340 345 350

Ala Gly Asp Lys Phe Trp Arg Tyr Asn Glu Val Lys Lys Lys Met Asp  
355 360 365

Pro Gly Phe Pro Lys Leu Ile Ala Asp Ala Trp Asn Ala Ile Pro Asp  
370 375 380

Asn Leu Asp Ala Val Val Asp Leu Gln Gly Gly Gly His Ser Tyr Phe  
385 390 395 400

Phe Lys Gly Ala Tyr Tyr Leu Lys Leu Glu Asn Gln Ser Leu Lys Ser  
405 410 415

Val Lys Phe Gly Ser Ile Lys Ser Asp Trp Leu Gly Cys  
420 425

<210> 41

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> Fmoc modified.

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> OButl modified at position 3.

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> Methylated valine at position 5.

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> Valine with a carboxy terminal ONa.

<400> 41

Arg Gly Asp Phe Val  
1 5

<210> 42

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Fmoc modified

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> OButyl modified in position 3.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Methylated valine in position 5.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Valine with a hydroxyl group.

<400> 42  
Arg Gly Asp Phe Val  
1 5

<210> 43  
<211> 5  
<212> PRT  
<213> Artificial Sequence

C <220>  
<223> Description of Artificial Sequence: peptide

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> OButl modified at position 3.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Methylated valine at position 5.

<220>  
<221> PEPTIDE  
<222> (1)..(5)  
<223> Valine with a hydroxyl group.

<400> 43  
Arg Gly Asp Phe Val  
1 5